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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			ORTIZ CRIADO, JORGE L	
	RIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER
	,		2655	<u></u>
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/546,971	SPRUIT ET AL.
Office Action Summary	Examiner	Art Unit
	Jorge L Ortiz-Criado	2655
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rimplement of the period for reply is specified above, the maximum statutory perions are provided by the office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (3 od will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAN	by be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>03</u> This action is FINAL . 2b) ☑ The solution of the process of the proce	nis action is non-final. vance except for formal matters	
Disposition of Claims		•
4) Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) 16 and 17 is/are allowed. 6) Claim(s) 1-7 and 9-14 are is/are rejected. 7) Claim(s) 8 and 15 is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Exami 10) The drawing(s) filed on 03 December 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	s/are: a)⊠ accepted or b)□ o he drawing(s) be held in abeyance ection is required if the drawing(s)	s. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in App riority documents have been re eau (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sun	nmary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/N Paper No(s)/Mail Date	Paper No(s)/N	Mail Date rmal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person-having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 and 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagara et al. U.S. Patent No. 6,147,957 in view of Tanaka et al. U.S. Patent No. 5,881,037.

Regarding claim 1, Nagara et al. discloses a method of recording information in units on a record carrier having a track for consecutively recording the information units at addressable locations (See col. 1, lines 47-57; col. 4, lines 29-46; Figs. 2,3,7,13),

the information being represented in the track by series of marks of different runlengths between a minimum runlength (3T) and a maximum runlength (11T) and synchronizing patterns of marks which patterns do not occur in the series of marks (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13), said method comprising:

(a) encoding at least one information unit into a modulated signal comprising signal elements corresponding to said marks (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 3,5,6,7),

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- (b) scanning said track up to a link position before a selected one of said addressable locations (See col. 4, lines 9-51; col. 6, lines 15-29; Fig. 3,5,6,7), and
- (c) recording the modulated signal from the link position, characterized in that (See col. 4, lines 9-51; col. 6, lines 15-29; Fig. 3,5,6,7)
- (d) the modulated signal is provided at the begin and/or at the end with a link signal element corresponding to a link mark of at most the minimum runlength (2T) (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns comprise at least one long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

Regarding claim 2, the combination of Nagara et al. with Tanaka et al. would show the link signal element corresponds to a mark shorter than the minimum runlength (2T) (See Nagara et al. col. 7, lines 33-37; Fig. 6)

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Regarding claim 3, a device for recording information in units on a record carrier having a track for consecutively recording the information units at addressable locations (See col. 1, lines 5-57; col. 4, lines 29-46; Figs. 1,2,3,7,13),

the information being represented in the track by series of marks of different runlengths between a minimum runlength (3T) and a maximum runlength (11T) and synchronizing patterns of marks, which patterns do not occur in the series of marks (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13)

said device comprising encoding means for encoding at least one information unit into a modulated signal comprising signal elements corresponding to said marks (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 1,3,5,6,7),

and recording means for scanning said track up to a link position before a selected one of said addressable locations and recording the modulated signal from the link position (See col. 3 line 31 to col. 4, line 51; Fig. 1),

characterized in that the encoding means are arranged for providing the modulated signal at the begin and/or at the end with a link signal element corresponding to a link mark of at most the minimum runlength (2T) (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns comprise at least one long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

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Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern; at a runlength longer than the sum of the maximum runlength and the runlength of the link mark, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

Regarding claim 4, the combination of Nagara et al. with Tanaka et al. would show wherein said runlengths are expressed in steps of a channel bit (See Nagara et al. col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13),

and the encoding means are arranged for providing the link signal element corresponding to a link mark one channel bit shorter than the minimum runlength (2T)(See Nagara et al. col. 7, lines 33-37; Fig. 6).

Regarding claim 5, the combination of Nagara et al. with Tanaka et al. would show synchronization pattern including at least one long mark in the synchronizing pattern; at a runlength longer than the sum of the maximum runlength and the runlength of the link mark (See Tanaka et al. col. 9, line 45 to col. 10 lines 1-67).

Regarding claim 6, the combination of Nagara et al. with Tanaka et al. would show wherein the encoding means comprise synchronizing means for providing the synchronizing pattern having said at least one long mark followed by a short mark of a runlength shorter than the

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maximum runlength (See Nagara et al col. 4, lines 9-12; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7)

and the encoding means are arranged for providing a second link signal element after the link signal element at the begin of the modulated signal, the second link signal element corresponding to a mark differing from the short mark (pattern 1, 3T) (See Nagara et al col. 4, lines 9-12; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Regarding claim 7, the combination of Nagara et al. with Tanaka et al. would show wherein the encoding means comprise means for variably selecting one out of a set of fixed linking sequences that each start with the link signal element followed by further signal elements for recording marks up to the first synchronizing pattern (See Nagara et al col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7)

substantially half of the linking sequences of the set having an odd number of mark boundaries (first half 3T odd, second half 2T) (See Nagara et al col. 4, lines 9-57; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Regarding clam 9, the combination of Nagara et al. with Tanaka et al. would show wherein the device comprises means for processing or compressing digital or analog input signals such as audio and/or video to units of information (See Nagara et al. col. 4, lines 9-12; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

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Regarding claim 10, the combination of Nagara et al. with Tanaka et al. would wherein the input signals are audio and/or video signals (see Tanaka et al. Abstract)

Regarding claim 11, the combination of Nagara et al. with Tanaka et al. would wherein the encoding means comprise synchronizing means for providing said at least one long mark in the synchronizing pattern at a runlength longer than the sum of the maximum runlength and the runlength of the link mark (See Tanaka et al. col. 9, line 45 to col. 10 lines 1-67).

Regarding claim 12, the combination of Nagara et al. with Tanaka et al. would a record carrier produced by the method of claim 1 (See Nagara et al. col. 1, lines 5-57; col. 4, lines 29-46; Figs. 1,2,3,7,13) (See Tanaka et al. col. 9, line 45 to col. 10 lines 1-67)

Regarding claim 13, Nagara et al. discloses a method comprising:

encoding an information unit forming a recording signal of signal elements (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 3,5,6,7), the recording signal containing:

a linking signal element, a synchronizing pattern of signal elements, and the encoded information unit (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7); selecting an addressable location on the track of a record carrier; scanning the track up to a link position before the selected addressable location (See col. 4, lines 9-51; col. 6, lines 15-29; Fig. 3,5,6,7), and

recording the recording signal as marks corresponding to the signal elements and starting at the link position, the marks having different run lengths, the marks representing the information

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unit having run lengths that vary from a minimum run length to a maximum runlength, the pattern of marks representing the synchronizing pattern not occurring in the marks representing the information unit (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13) and the mark representing the link signal element having a run length of at most the minimum runlength (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns including a long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern; at a runlength longer than the sum of the maximum runlength and the runlength of the link mark, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

Regarding claim 14, Nagara et al. discloses a recording device comprising:

encoding means for encoding at least one information unit, and for variably selecting, one out of a set of fixed linking sequences that each start with a link signal element followed by further signal elements (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 3,5,6,7), and

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for providing a recording signal of signal elements, the recording signal containing the selected linking sequence, a synchronizing pattern, and the encoded information unit (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7)and

recording means for selecting an addressable location in the track of a record carrier, and for scanning said track up to a link position before the selected addressable location and for recording the recording signal starting at the link position, the marks having different run lengths, the marks representing the information unit having run lengths that vary from a minimum run length to a maximum runlength, the pattern of marks representing the synchronizing pattern not occurring in the marks representing the information unit (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13) and

the mark representing the link signal element having a run length of at most the minimum runlength (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns including a long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

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Allowable Subject Matter

3. Claims 8 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 16 and 17 are allowed.

Response to Arguments

5. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jorge L Ortiz-Criado whose telephone number is (703) 305-8323. The examiner can normally be reached on Mon.-Thu.(8:30 am - 6:00 pm), Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris H To can be reached on (703) 305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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